

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P1499254

Luminaire Tested: MAE-G-4-120-2HI-STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499254
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2HI-STD-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

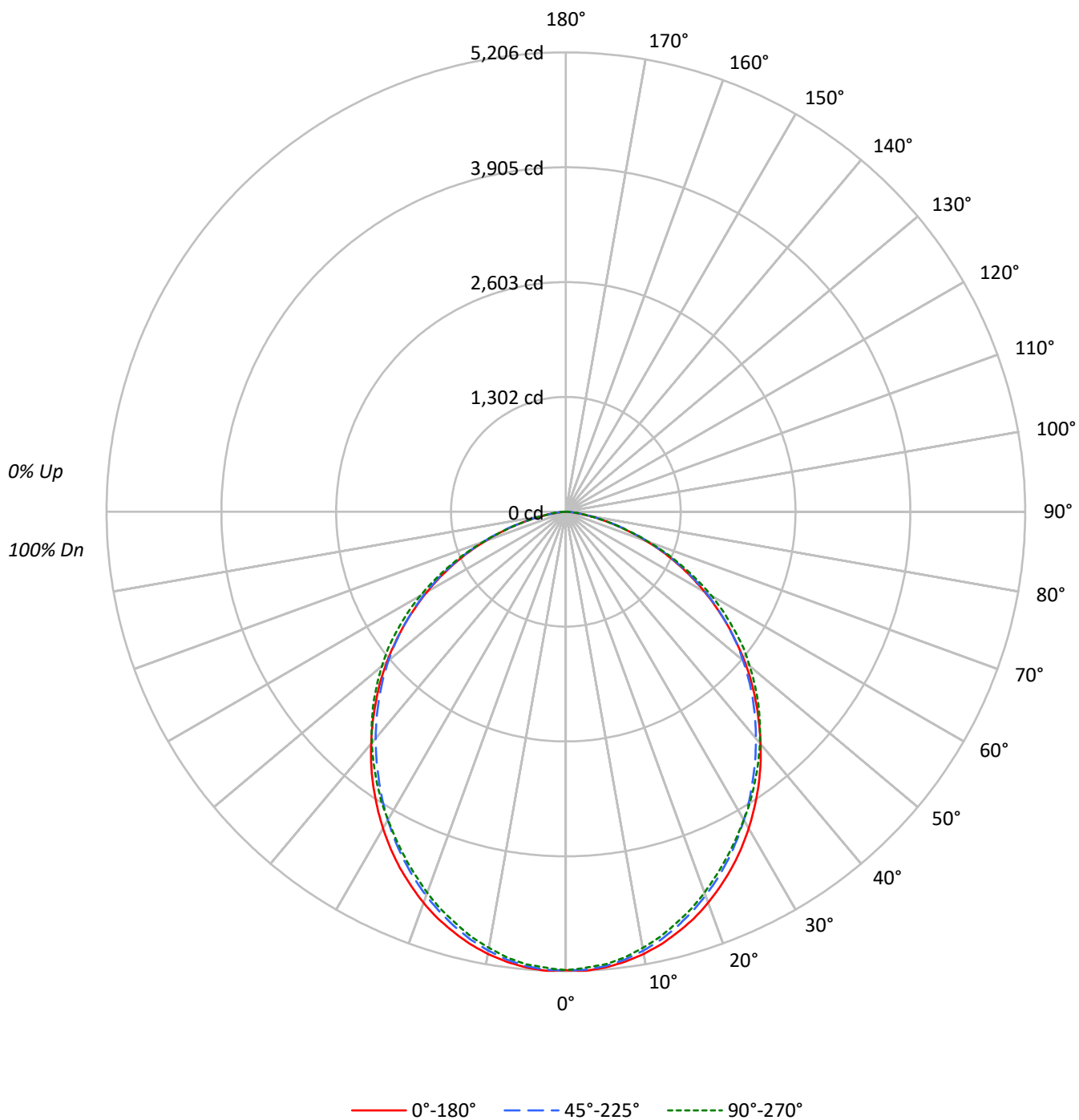
Lumens per Lamp: N/A
Luminaire Lumens: 12702.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6990	6990	6990
5°	7001	6980	6951
10°	6951	6902	6857
15°	6865	6779	6727
20°	6752	6628	6578
25°	6609	6457	6411
30°	6439	6269	6264
35°	6248	6073	6137
40°	6029	5888	6008
45°	5795	5698	5871
50°	5539	5491	5693
55°	5244	5242	5461
60°	4890	4930	5137
65°	4443	4507	4622
70°	3831	3912	3929
75°	3047	3129	3028
80°	2055	2110	2045
85°	1045	1359	1703

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5871 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.8	3.8
10°-20°	1371.1	10.8
20°-30°	2008.7	15.8
30°-40°	2334.1	18.4
40°-50°	2334.4	18.4
50°-60°	2013.5	15.9
60°-70°	1400.9	11.0
70°-80°	636.3	5.0
80°-90°	114.2	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3868.7	30.5
0°-40°	6202.8	48.8
0°-60°	10550.6	83.1
0°-90°	12702.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12702.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5195	5195	5195	5195	5195	
5°	5183	5163	5168	5140	5147	492
15°	4928	4896	4867	4825	4829	1389
25°	4452	4407	4349	4310	4319	2049
35°	3804	3749	3697	3708	3736	2377
45°	3045	2999	2995	3048	3085	2349
55°	2236	2202	2235	2300	2328	1997
65°	1395	1384	1416	1438	1452	1381
75°	586	584	602	588	582	631
85°	68	74	88	104	110	101
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5195.4	5195.4	5195.4	5195.4	5195.4
2.5°	5206.4	5187.5	5195.4	5175.0	5172.1
5°	5183.4	5163.4	5167.6	5140.5	5146.7
7.5°	5143.6	5121.1	5118.6	5088.7	5094.9
10°	5087.9	5061.0	5051.5	5015.2	5018.8
12.5°	5016.9	4987.2	4968.9	4927.7	4934.0
15°	4928.3	4895.8	4866.9	4824.9	4829.1
17.5°	4831.1	4796.7	4754.2	4710.2	4720.0
20°	4715.6	4678.8	4628.9	4582.9	4594.1
22.5°	4587.8	4546.8	4495.5	4450.5	4458.0
25°	4451.7	4407.0	4349.1	4309.7	4318.7
27.5°	4303.6	4253.9	4196.2	4162.4	4175.8
30°	4144.4	4093.0	4035.3	4013.5	4031.8
32.5°	3976.8	3924.9	3869.9	3864.6	3890.7
35°	3803.8	3748.6	3697.3	3707.6	3736.5
37.5°	3623.8	3569.8	3526.3	3552.0	3582.2
40°	3432.7	3383.3	3352.4	3388.2	3420.5
42.5°	3241.0	3194.1	3175.7	3222.3	3257.0
45°	3045.3	2999.0	2994.6	3048.2	3085.3
47.5°	2851.3	2804.1	2812.1	2871.9	2905.1
50°	2646.1	2605.6	2623.1	2686.3	2719.6
52.5°	2440.1	2403.0	2430.7	2497.7	2536.7
55°	2235.7	2202.2	2234.6	2300.3	2327.8
57.5°	2026.0	2001.5	2037.0	2094.3	2120.8
60°	1817.3	1795.3	1832.1	1884.4	1909.0
62.5°	1606.3	1588.3	1625.8	1667.0	1681.2
65°	1395.4	1384.3	1415.6	1437.7	1451.8
67.5°	1188.5	1177.3	1206.9	1225.4	1229.0
70°	973.9	969.8	994.3	1001.8	998.7
72.5°	777.2	771.5	790.8	788.1	781.0
75°	586.2	584.5	601.8	587.9	582.5
77.5°	412.8	418.8	422.9	410.7	406.3
80°	265.2	274.9	272.3	268.0	263.9
82.5°	148.3	155.7	157.5	173.2	179.5
85°	67.7	74.4	88.0	103.9	110.3
87.5°	22.9	28.5	36.8	39.2	37.0
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.68	19.26	18.05	19.58	19.89	18.00	19.58	18.36	19.90	20.21
	3H	19.14	20.56	19.52	20.89	21.25	19.43	20.85	19.81	21.18	21.54
	4H	19.56	20.90	19.96	21.25	21.62	19.82	21.15	20.21	21.50	21.88
	6H	19.77	21.00	20.18	21.37	21.76	19.99	21.23	20.41	21.59	21.99
	8H	19.79	20.97	20.22	21.36	21.76	20.03	21.21	20.45	21.59	21.99
	12H	19.79	20.92	20.22	21.30	21.73	20.05	21.17	20.48	21.55	21.98
4H	2H	18.25	19.59	18.65	19.94	20.31	18.51	19.85	18.91	20.19	20.57
	3H	19.89	21.00	20.30	21.40	21.80	20.12	21.23	20.53	21.63	22.03
	4H	20.39	21.39	20.82	21.81	22.24	20.60	21.60	21.03	22.01	22.45
	6H	20.67	21.54	21.13	21.98	22.44	20.85	21.72	21.30	22.16	22.62
	8H	20.71	21.52	21.17	21.97	22.43	20.90	21.71	21.36	22.16	22.62
	12H	20.72	21.45	21.21	21.93	22.40	20.94	21.67	21.42	22.14	22.61
8H	4H	20.57	21.39	21.04	21.83	22.30	20.76	21.57	21.22	22.01	22.48
	6H	20.91	21.58	21.40	22.07	22.54	21.06	21.73	21.56	22.22	22.70
	8H	20.97	21.57	21.49	22.08	22.57	21.15	21.75	21.66	22.25	22.74
	12H	21.01	21.54	21.51	22.03	22.59	21.22	21.75	21.73	22.24	22.80
12H	4H	20.57	21.30	21.05	21.77	22.24	20.76	21.48	21.24	21.96	22.43
	6H	20.90	21.50	21.41	22.01	22.50	21.06	21.66	21.57	22.17	22.65
	8H	21.00	21.53	21.51	22.02	22.59	21.17	21.70	21.68	22.20	22.76

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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